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L3: Entry 3 of 6

File: USPT

May 9, 1989

US-PAT-NO: 4828499

DOCUMENT-IDENTIFIER: US 4828499 A

TITLE: Apparatus for constructing crossword puzzles

DATE-ISSUED: May 9, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Modzak; Stella M.	Chicago	IL	60641	

US-CL-CURRENT: 434/177; 273/153R

## CLAIMS:

I claim:

1. Apparatus for constructing crossword puzzles comprising: a work assembly including means defining a work area surface having a high degree of magnetic permeability; a grid member of a magnetic pervious material overlying said work area surface; and means removably securing said grid member to said work area surface; said grid member defining a rectangular grid planar surface free of openings therein and having a plurality of squares of a given size extending in rows and columns on said planar surface; and

a plurality of work pieces of a magnetic material removably positionable on said work assembly and said planar surface of said grid member, said work pieces including solid colored work pieces positioned on said planar surface of said grid member to define a puzzle pattern and work pieces bearing indicia representative of the letters in the alphabet and arranged on said planar surface of said grid member to define words extending in the rows and columns defined by said grid member to complete the construction of the crossword puzzle.

2. Apparatus according to claim 1, wherein said work assembly comprises a box-like structure including means defining a plurality of compartments spaced along at least one peripheral edge thereof and a flat plate-like member located in the upper center portion of said box-like structure defining said work area surface, said compartments storing said work pieces when they are not in use, and said plate member being rectangular in shape and having a flat upper surface for receiving said grid member, said plate member being of magnetic permeable material, and said means for removably securing said grid member to said work area surface including a plurality of magnets.

3. Apparatus according to claim 2, wherein said securing means comprises a plurality of triangular shaped corner pieces, said grid member being rectangular in shape and being secured to said plate member by said corner pieces.

4. Apparatus according to claim 1, which comprises a plurality of grid members each defining a different rectangular grid having a different plurality of squares.

5. Apparatus for constructing crossword puzzles comprising: a housing including a base portion and a cover portion, said base portion constructed and arranged to receive said cover portion thereon; said base portion including means defining a countersunk work area surface having magnetic attracting properties; a plurality of grid members each defining a different rectangular grid planar surface free of openings thereon and having a different plurality of squares of a given size extending in rows and columns

therein on said planar surface; means removably securing a selected one of said grid members to said work area surface;

a plurality of work pieces of magnetic material removable positionable on said work area surface, and on said planar surface of said grid member, said work pieces including solid colored work pieces for defining a puzzle pattern, and further work pieces bearing indicia representative of letters of the alphabet and arranged on said planar surface of said grid member to define words extending in the rows and columns defined by said grid member; said base portion including means defining a plurality of compartments for storing said work pieces when they are not in use; said cover portion including means to enclose the upper part of said base portion to cover said compartments enclosing the work pieces therewithin. of said base portion to cover said compartments enclosing the work pieces therewithin.

6. Apparatus according to claim 5, wherein said cover portion includes means defining an inclined support, said base portion being supported on said inclined support during use of the apparatus in constructing a crossword puzzle.

7. Apparatus according to claim 5, wherein said base portion defines a grid storage compartment for said grid members, said cover portion including a member enclosing said grid storage compartment when said cover portion is mounted on said base portion.

8. Apparatus according to claim 5, wherein said base portion comprises a generally box-like structure including a flat bottom board, first and second side members extending along opposite edges of said board and a bottom member extending between said side members defining therewith a generally C-shaped external wall for said bottom portion, and first and second inner wall members extending in a parallel spaced relation spaced apart from said first and second outer wall members and parallel thereto, and an inner bottom wall member extending between said inner side wall members near first ends thereof, said inner and outer wall members defining a channel therebetween, and means within said channel dividing said channel into a plurality of said storage compartments for said work pieces; said inner side and bottom wall members defining a generally rectangular compartment and supporting a generally rectangular sheet of a rigid magnetically permeable material therewithin defining said countersunk work area surface, said sheet of material spaced above said base board center portion in parallel spaced relation defining a compartment for said grid members.

9. Apparatus according to claim 8, wherein said cover portion comprises a generally rectangular sheet of a rigid material corresponding in length and width substantially to the dimensions of the box defined by said outer side and bottom wall members, said outer side and bottom members each formed with a groove on an inner surface thereof adapted to receive said sheet of said cover portion, and said cover portion further comprising a rail member attached to one end thereof which engages said wall members of said bottom portion near their second ends.

10. Apparatus according to claim 9, further including latching means including means carried by said cover portion and means carried by said outer wall members on outer surfaces thereof for cooperating with said means on said cover portion for latching said cover portion to said base portion.

11. Apparatus according to claim 10, wherein said cover portion further comprises a handle attached to said rail member of said cover portion to facilitate carrying of the apparatus.

**WEST****End of Result Set**

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L3: Entry 6 of 6

File: USPT

Apr 19, 1977

US-PAT-NO: 4017986

DOCUMENT-IDENTIFIER: US 4017986 A

TITLE: Room planning kit

DATE-ISSUED: April 19, 1977

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Charles	Mississauga, Ontario			CA

US-CL-CURRENT: 434/73; 434/80, 446/482

## CLAIMS:

The embodiment of the invention in which an exclusive privilege or property is claimed are defined as follows:

1. A room planning kit comprising a planner mounting surface having first magnetic attraction means adapted to magnetically attract the lowermost lateral surfaces of a plurality of individual models, said models having a horizontal projection in proportion to the horizontal projection of the articles represented thereby, said models adapted to lie entirely in a plane when unfolded and to have surfaces lying in one or more of three planes normal to each other when folded, one of said three planes parallel to said lowermost lateral surface, said lowermost lateral surface having a second magnetically attractive means thereupon, means to selectively maintain said models in a folded three dimensional shape, means to removably apply a layout sheet having a plurality of grid lines thereupon intermediate said planner mounting surface and said lowermost lateral surfaces.
2. The room planning kit as claimed in claim 1 wherein said unfolded models are adapted with perforations delineating the marginal edges thereof from a sheet of material thereabout comprising said models extending beyond said marginal edges and lines of weakened material comprising said models within said models permitting folding of said material thereupon.
3. The room planning kit as claimed in claim 1 wherein said first magnetic attraction means comprises permanent magnets.
4. The room planning kit as claimed in claim 1 wherein said layout sheet comprises perforations along said grid lines permitting selective separation of a portion of said layout sheet from the remaining portions thereof.
5. The room planning kit as claimed in claim 1 further comprising a planner model having an outline proportional to the horizontal projection of the article represented thereby adapted with a third magnetic attractive means thereupon.
6. The room planning kit as claimed in claim 5 wherein said second and said third magnetic attraction means comprises printed magnetically sensitive particles upon said planer model and said lowermost lateral surfaces.
7. The room planning kit as claimed in claim 1 wherein said models further comprise tabs thereupon having pressure sensitive adhesive selectively located thereabout, said tabs covered with removable sheets of release material.

8. The room planning kit as claimed in claim 1 wherein a surface of said models are printed depicting the visual features of the article represented thereby.

9. The room planning kit as claimed in claim 1 wherein a quantity of said plurality of models are grouped in accordance with the intended use thereof of the articles represented thereby into the pages of a book.

10. The room planning kit as claimed in claim 5 wherein said planner models have marginal edges corresponding to said scaled horizontal projection.